

Passivent
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Passivent

*Cruden Care Home
Dartmouth*



passivent

Ensuring a new-build dementia care home with 80 bedrooms over four storeys was properly ventilated yet as energy efficient as possible has been simplified through Passivent's ability to deliver a comprehensive solution.

Cruden Construction's development, on a former industrial estate in Collingwood Road, Dartmouth, is one part of its client's programme to create a national portfolio of care homes. When complete, it will be the first home of its type within the town. The strict criteria to meet varying air changes dependant on the area and use of each section of the building and yet still be energy efficient, created a complex brief for the ventilation strategy.

Passivent was able to develop a scheme that complied with all requirements, through a combination of its intelligent Mechanical Extract Ventilation (iMEV), and its innovative Fresh Intellivent continuous assisted ventilation systems. Each of the 80 en-suite bathrooms is ventilated via iMEV, and the communal toilets via Intellivent. Carl Tyrer, Passivent Commercial Manager, explained, *"The combination of systems we were able to provide via subcontractor Keyplan Engineering gave Cruden a solution that was simpler, and more cost-effective, to install yet still complies with all the Regulatory requirements, and the project-specific criteria of minimising energy consumption and user input."*

Passivent iMEV system provides silent, discreet ventilation, with the flexibility to address the requirements of specific areas, be it humidity (moisture vapour), odours or both, by either constant, controlled extract ventilation or as required by particular location.



A range of extracts enables exact tailoring of the ventilation to each specific area, be it humidity in bathrooms, showers, toilets and kitchen areas or odours in WC's and sluice areas.

As the flow rate is controlled by the extract units in each room, ventilation is tailored to exact requirements, operating only as, when and where required, rather than boosting the whole ventilation system when excess moisture vapour in just one bathroom arises. As a result, heat loss through unnecessary extract ventilation is eliminated, further enhancing the system's energy efficiency and lifetime costs.

Passivent Fresh Intellivent comprises a continuously running low wattage extract fan in each of the 'wet' rooms; an automatic moisture detection function within the fan continually senses humidity in the air, and adjusts the flow rate accordingly up to a high level as and when required, or down to the level set by the occupant, combating high levels of moisture and humidity, and thus preventing risk of damp/ condensation.

Passivent Fresh Intellivent has been purpose designed to operate as silently, and as cost-effectively as possible; and, compared to a conventional AC extract fan, it is as quiet as a whisper, running at just 22dB(A) at boost level, and uses only 5W of electricity.



A low power, continuously running central extract fan strategically located on the third floor boosts extraction of moisture laden air along the ducting and out through a terminal mounted on the roof. Humidity sensitive extracts in "wet" rooms provide silent, demand-controlled ventilation ensuring afresh, condensation-free environment without any occupant involvement. The only running cost is the minimal energy consumption of the low power fan. Further, as the fan is located away from the living areas, there is no noise to disturb residents or carers.



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